User Manual

For IL6000HA NetDVR

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1. Features and Specifications

Local Function

4/8 channel real time (25FPS @PAL, 30FPS @ NTSC) D1 resolution preview and H.264 compression

4 channel high quality D1 or CIF real time (25FPS @PAL, 30FPS @ NTSC) playback.

4 channel audio ADPCM synchronous compression.

Auto adapted bit-rate and frame rate.

Support OSD and multiple areas motion detection.

Support manual record, schedule record and event record.

Support USB backup and USB upgrade system.

Status displays local record, alarm and motion detection

Control

Support PTZ control

Support preset, sequence and tour

Alarm

Local alarm includes exception and motion detection (Alarm pops up full screen image).

Alarm linkage triggered record, linkage alarm output and sound alarm.

Email alarm notification

Network

Support TCP/IP, DHCP, PPPoE, DDNS.

Support Internet Explorer, easy to use such as remote configuration, remote control and network record.

Support mobile phone surveillance

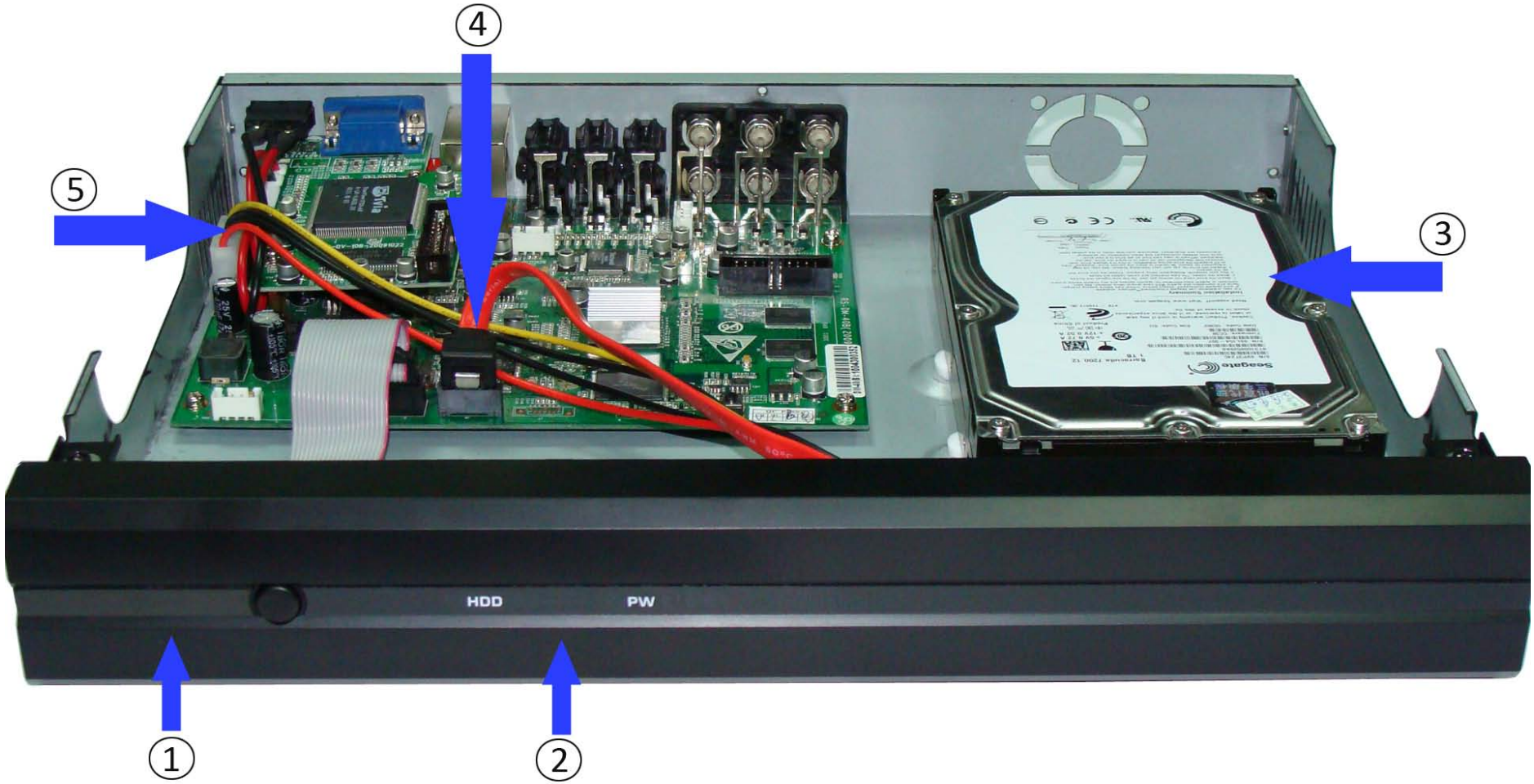
Specification

Model Name	**IL6004HA**	**IL6008HA**
Video compression	H.264	
Preview resolution	PAL 704*576, NTSC 704*480	
Playback resolution	Total 120fps@CIF / 30fps@D1	Total 240fps@CIF / 60fps@D1
Video input	4 BNC	8 BNC

Audio input	4 RCA	1 RCA
Audio output	2 RCA	1 RCA
External alarm input	4	8
Relay output	1	1
Video input interface	BNC (Electrical Level 1.0Vp-p, resistance 75Ω)	
Video output	1 VGA interface, support resolution 800×600, 1024×768, 1280×1024, 1440×900, 1920×1200 2 channel BNC (Electrical Level 1.0Vp-p, resistance 75Ω)	
Frame rate	CIF 120fps, D1 30fps auto fit	
Stream type	Video/Video & Audio	
Max bit rate	2MB	
Audio compression	ADPCM	
Audio compression rate	24Kbps	
Communication interface	1 RJ45 10M/100M Self-adaptive Ethernet Interface 1 RS485 (PTZ port)	
HDD interface	1 SATA HDD can support 2TB	
USB interface	1*USB 2.0 (below), 1*USB1.1(upper)	
Power supply	12V DC/ 3A	
Power consumption	<10W (without HDD)	
Working temperature	-10°C ~ 40°C	
Working humidity	10% ~ 90%	
Size	340mm × 270mm × 55mm	
Weight	1800g (without HDD)	

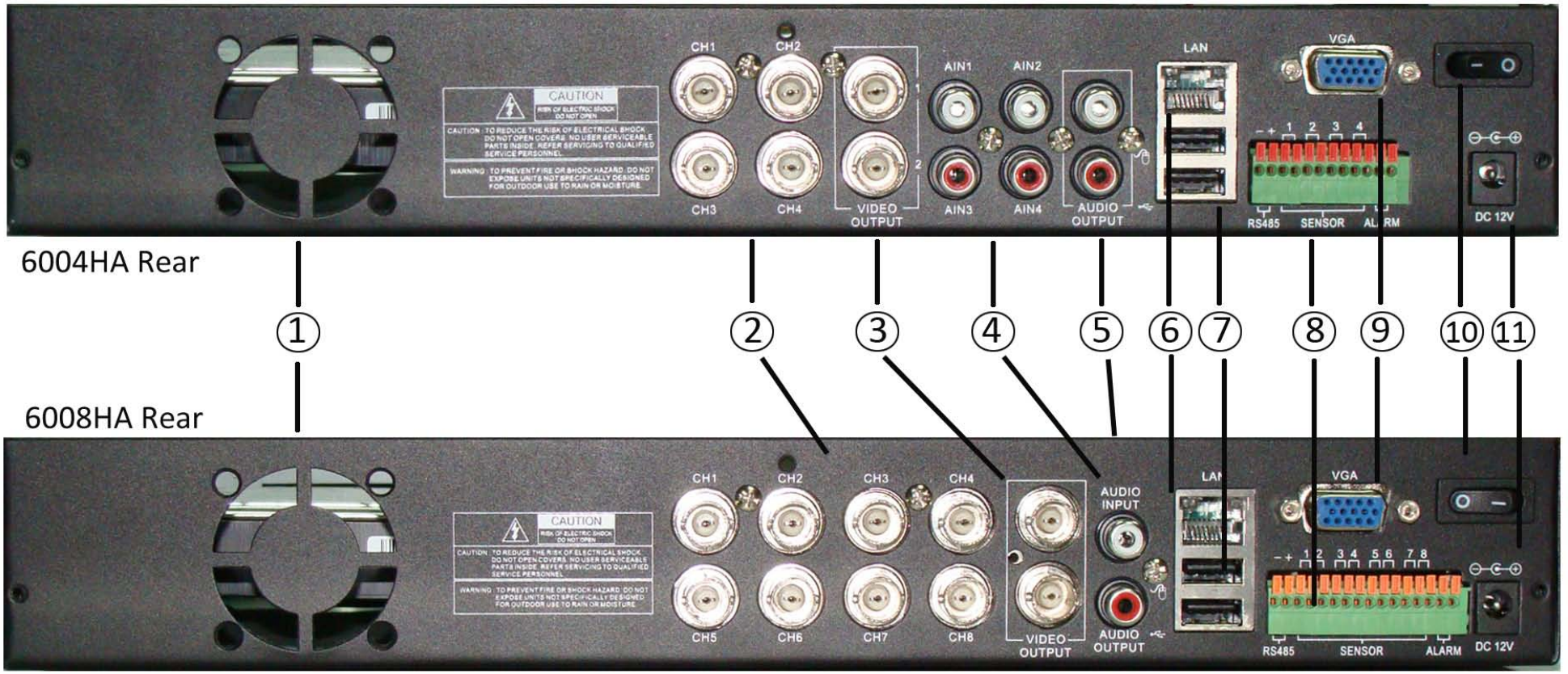
2. Physical Interface

2.1 Front Panel and HDD Installation



Index	Type	Name/Icon	Description	Index	Name	Description
1	Remote Controller Sensor		Don’t cover this area	3	Hard Disk Drive	Please use dashpot & gasket to fix the HDD
2	LED Indicator	PW	Power indicator. Turn green when DVR power on.	4	HDD SATA Port	Connect to HDD
		HDD	Hard disk indicator. Blinks when reading/writing.	5	HDD Power Connecter	Connect to HDD

2.2 Rear Panel of Product



Item	Description	
	4 CH DVR	8 CH DVR
1	Fan vent (reserved)	
2	4 channel video input, BNC	8 channel video input, BNC
3	Video Output (TV out), 2 BNC	
4	Audio In: (4 channels), RCA	Audio In: (only 1 channel), RCA
5	Audio Out: (2 channels), RCA	Audio Out: (only 1 channel), RCA
6	2 USB port, USB 2.0	
7	Network RJ45, 10/100M self-adaptive	

8	Communication Port	RS485: PTZ connection port
		SENSOR: 4/8 channel switch-level input, N/O. or N/C.
		ALARM: 1 channel switch-level alarm output,30VDC 1A, 125VAC 1A；
9	VGA resolution: 800×600@60Hz, 1024×768@60Hz, 1280×1024@60Hz, 1440×900@60Hz, 1920×1200@60Hz,	
10	Power On/Off button	
11	Power Input DC 12V/3A	

2.3 IR Remote Controller

1-9	Channel Select 1-9
0	Numeric Key
PREV	Preview all Channel
MENU / ESC	Enter/Exit Menu
▲ ▼	Up / Down Key
◀ ▶	Left /Right Key
EDIT	Select Key
◀◀	Reverse play key
▶	Play Key
▶▶	Forward Key
REC	Manual Recording
II	Pause / Dwell Time key
■	Stop
Mute	Testing

2.4 Mouse Operation

On different status, the mouse operation has different definition.

Left Click	On menu locked mode, click to enter pop-up menu and then click any sub menu to pop up Log-in window. On menu unlocked mode, click to enter pop-up menu or sub-menu directly.
	After enter main menu, click left key could enter any sub-menu. On [File List] menu mode, click left key could playback one recording file.
	Change the status of check box and motion detection area.
	Click combo box to display drop-down menu
	Click left key in preview mode could popup color control bar and volume control bar.
	Click left key could select value when appear edit box or drop-down menu and support Chinese word input, special symbol, numeric and character input, replace [Enter-] , [Backspace].
Right Click	In preview mode, right click to pop-up right-click menu.
	On main menu or sub-menu mode, clicking right key will exit current menu.
Double Click	In preview mode or playback mode, double-click left key will maximize the screen. On the [File List] menu mode, double click will playback one recording file.
Moving Mouse	Moving cursor between items of menu interface.
Sliding Mouse	On motion detect setup mode, sliding mouse will select motion area. On [Color set] menu mode, sliding mouse will move color control slider and volume control slider.

3. Main Interface

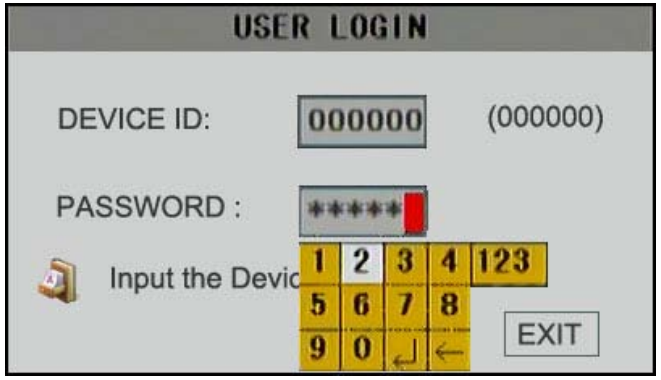
3.1 Log in

To boot up DVR system, please turn on the power button in rear panel and wait moment for system initializing.

On screen, right click the mouse will pop-up a right-click menu. Select Main Menu will enter System Menu interface (DVR default setting is password disable). If you have set password enable, the User Login dialog interface will pop up. Please input correct password to login to DVR. Default password of “Admin” and “User” is empty. It is recommended to change the password after you finish the system configuration.

Note: Before using the DVR to record, you must format the HDD in system menu. If DVR doesn’t detect HDD, It will give sounds warning and a message of “NO Hard disk” display on screen.

MAIN MENU: Click to enter system menu interface
VIDEO SEARCH: Click to enter playback interface
PTZ: Click to enter PTZ control interface
START RECORD: Click to start manual record.
STOP RECORD: Stop manual record
START CRUISE: Start PTZ camera touring.
START AUTOSEQ: Click to run camera switch view
PIP MODE: Click to select picture in picture viewing mode



3.2 Camera Status Icon

The camera status includes

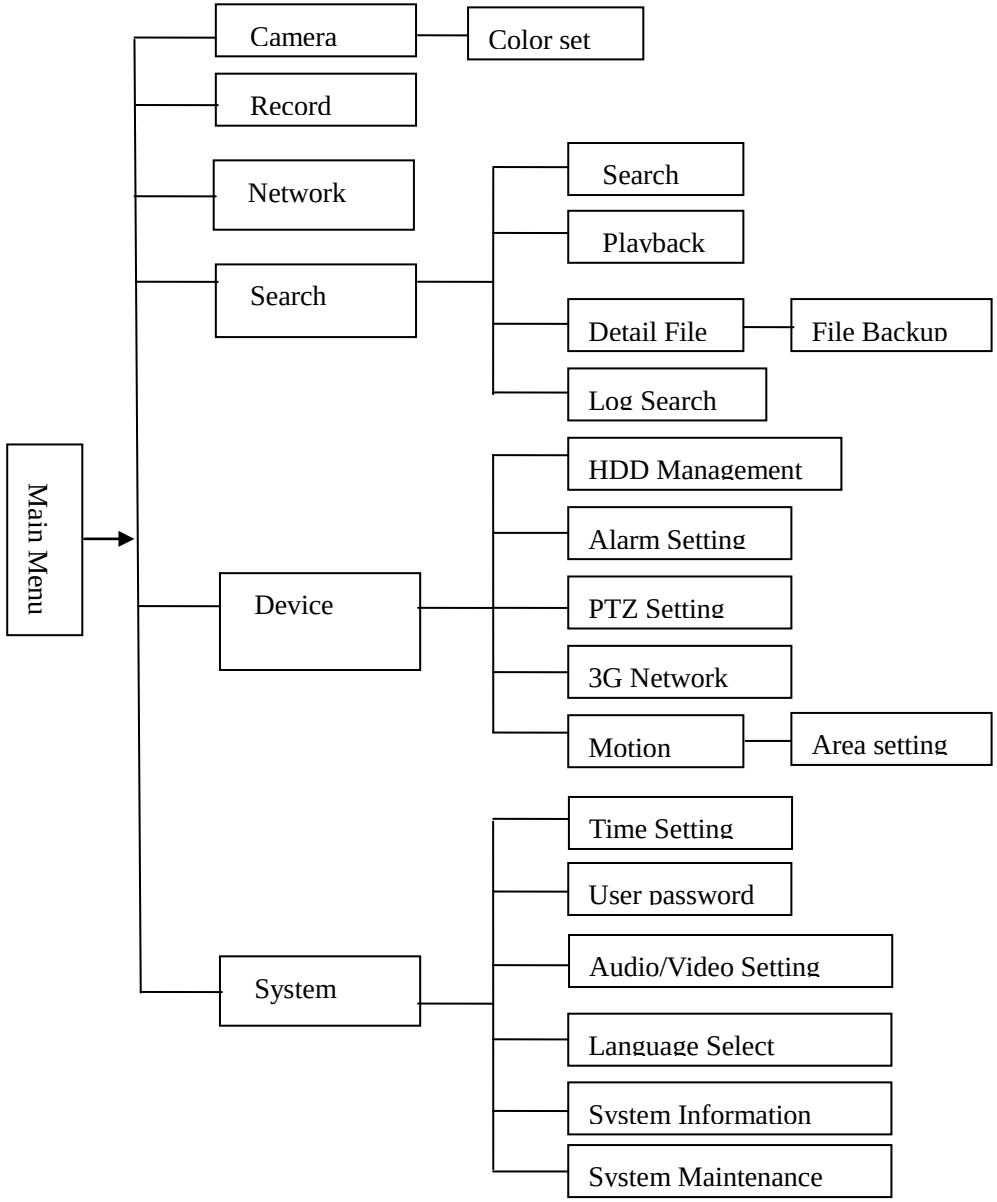
M This icon indicates “motion detect recording” status.

R This icon indicates “common recording”.

I This icon indicates “sensor alarm trigger recording”.

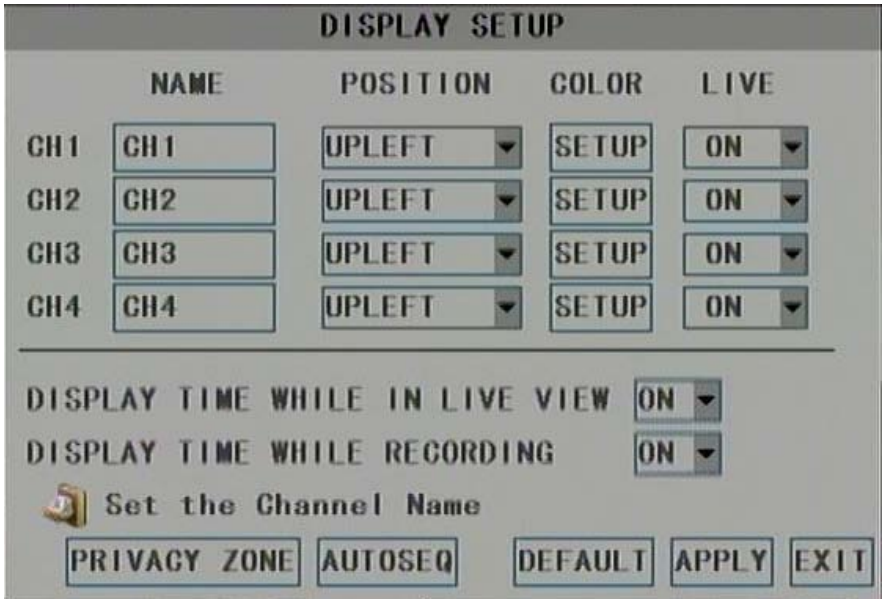
4. System Menu

System menu structure

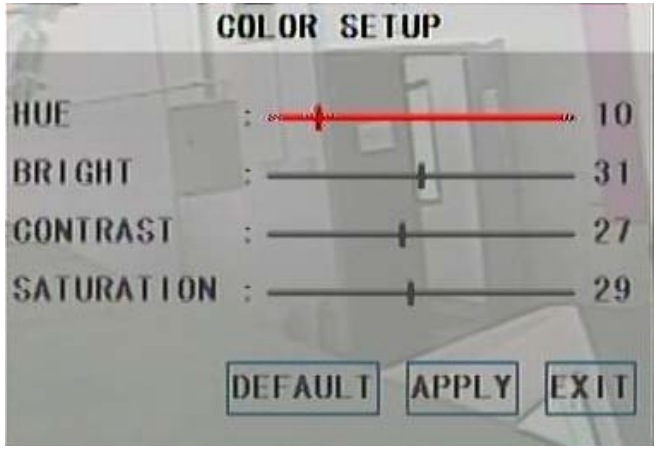


4.1 Camera

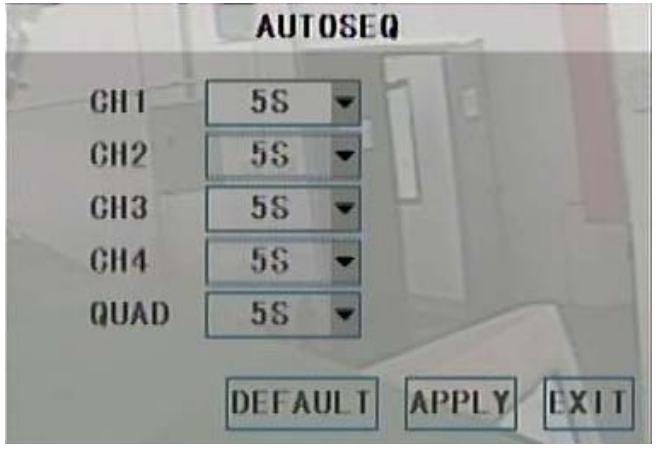
In main menu click CAMERA icon to enter Display Setup interface (below right illustration). In this page please setup camera OSD, adjust color, set privacy mask area, camera auto switch time and even hide a camera in preview mode.

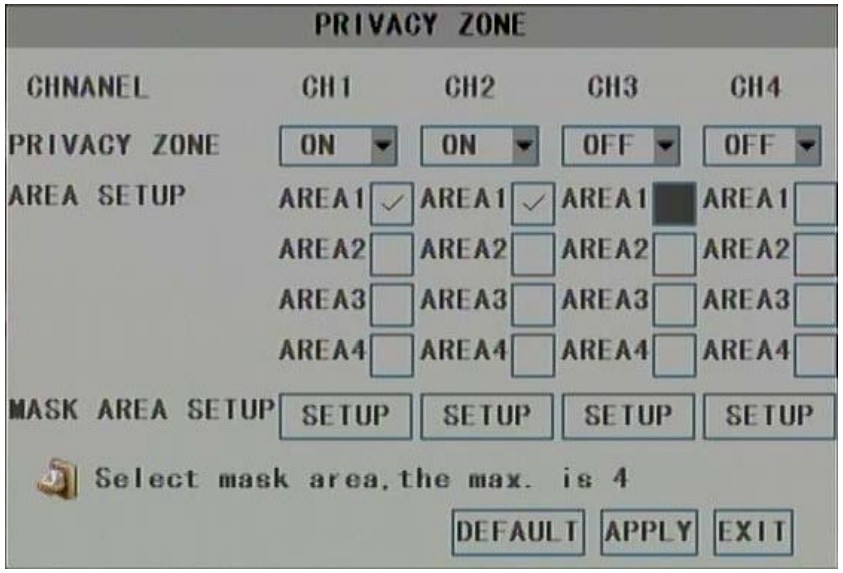


Move slider to change color settings.



Click dropdown list to select auto switching time.



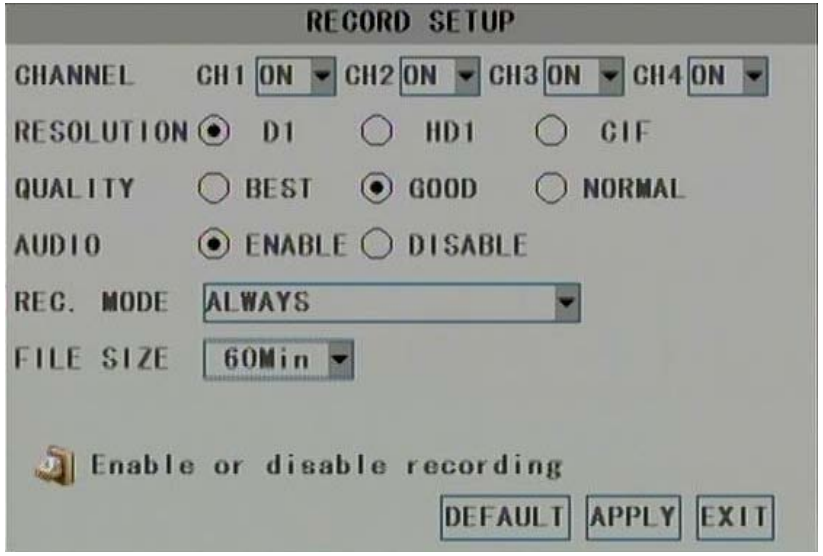


In Display Setup interface, click Privacy Zone button to enter into Privacy Zone interface. Every camera supports max. 4 zones of privacy mask. Operation steps:

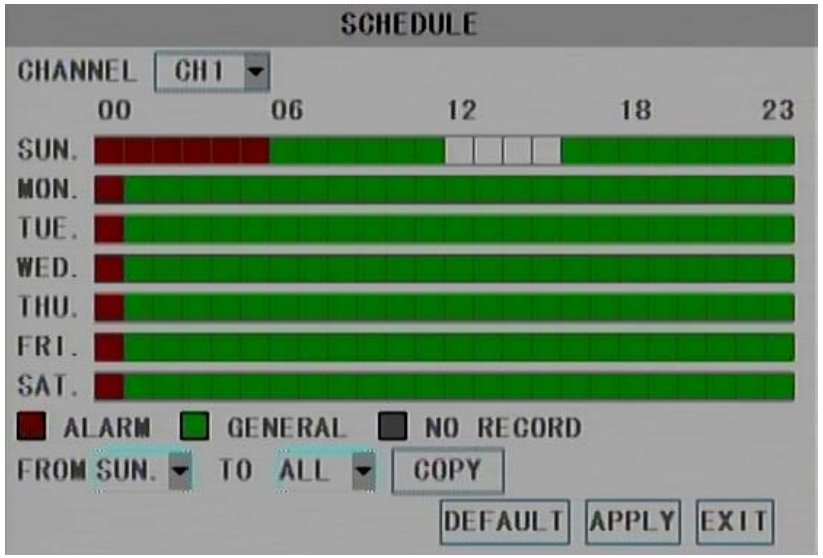
1. Set Privacy Zone ON
2. Select a area number to configure
3. Click SETUP button to bring up camera image. Move the default mask area to aim position or use the mouse to draw a new area if you need change the area size
4. Right click to exit camera image viewing interface
5. Click **APPLY** button to save settings

4.2 Record

In main menu interface click **RECORD** icon to enter Record Setup interface (below illustration).



Channel: Choose channel number to configure.
Resolution: Set record video resolution D1 (4CIF), HD1 (2CIF) and CIF.
Quality: Set video quality level Best, Good and Normal.
Audio: Set audio enable will record both video and audio synchronously.
REC. Mode: Set **Always** or **Time Schedule Record.** If you set **Time Schedule Record,** please go ahead to setup record time table.
File size: Set maximum continuous time length of recording file (15, 30, 45, 60 minute options).



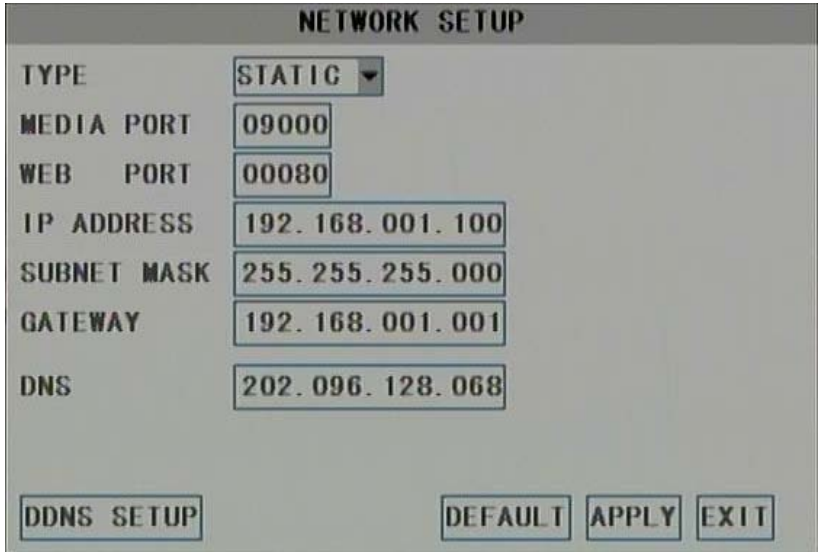
Operation steps:

1. Choose channel number to setup
2. Choose record mode icon (Red icon means alarm record. Green icon means continuous record. Grey icon means no record)
3. Following step 2 to click the time bar to set recording time schedule. One block in the time bar means one hour.
4. Click Apply button to save settings.
5. Repeat above steps to configure other channel one by one.

Use **COPY** feature to clone one day's setting to another day

4.3 Network

In main menu interface click **NETWORK** icon to enter Network Setup interface (below illustration). Please input correct parameters in this page otherwise network function may work abnormally.

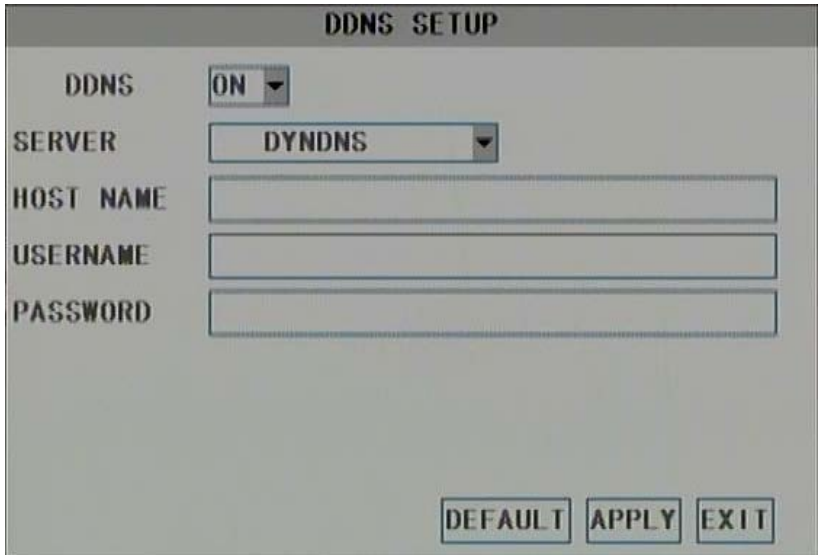


If you don't have a legal IP address for the DVR but connect DVR to internet through a public router, please configure the router to map the media port and web port to the DVR LAN IP address.

Host Port: 9000
Web Port: 8080
LAN IP address of DVR: 192.168.1.100

Remote user visit DVR by input http://router's IP:8080.

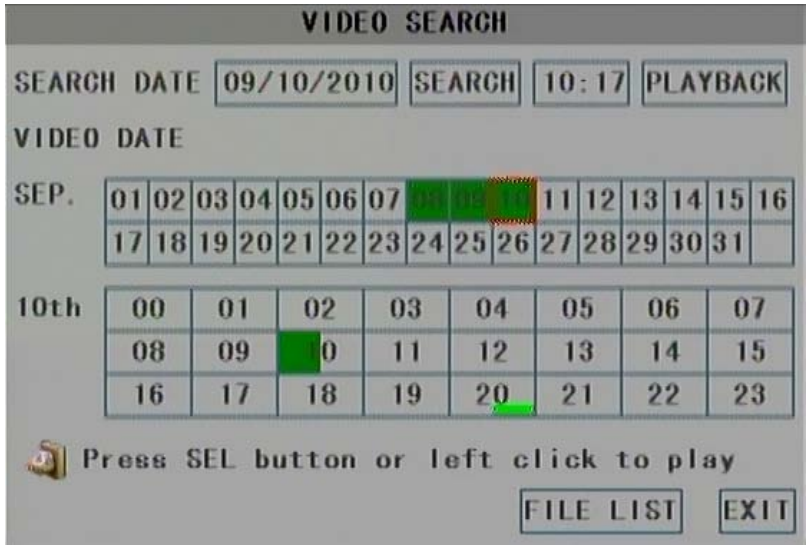
For your attention, if you use mobile phone for remote viewing, don't forget to map mobile phone port, Refer to section **MOBILE**.



If you use DDNS service please input your domain name and login information here.
Remote user visit DVR by input http://your domain name:8080.

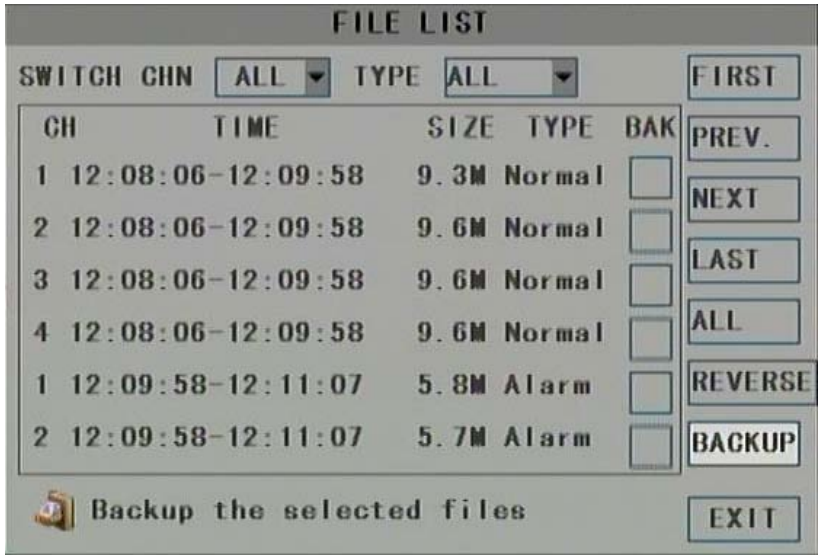
4.4 Search

In main menu interface click **SEARCH** icon to enter Video Search interface (below illustration).

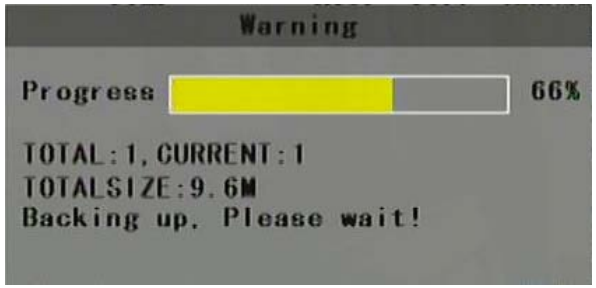


Operation steps:

1. Click date box to choose searching date
2. Click **SEARCH** button to begin search
3. In day and month area, the highlight green date means there is general normal recording video in the days. The highlight dark red date means there is alarm recording video in the days. Click it to select a day to search.
4. In the 24 hours time area, the highlight green digits means there are recording video in that hours. Click to select it then click **PLAYBACK** button to play video or double click it to play.
5. Click **FILE LIST** button to enter File List interface and list all files in the day.

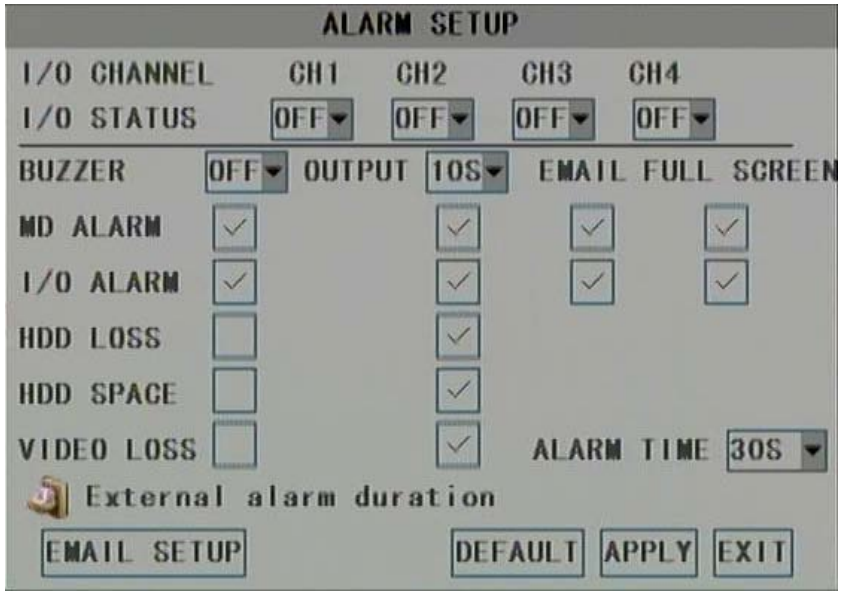


You can select a record file to play by double click it. If you need backup record data, please plug in USB stick to the USB port, check on the files which you want to save then click **BACKUP** button. See below diagram.



4.5 Device

In main menu interface click **DEVICE** icon to enter Device Management interface (below illustration). For your attention, HDD only format in DVR could be used to record.



There are 5 types of alarm trigger:

Motion Detect alarm (MD): Refer to Motion Detect Setup

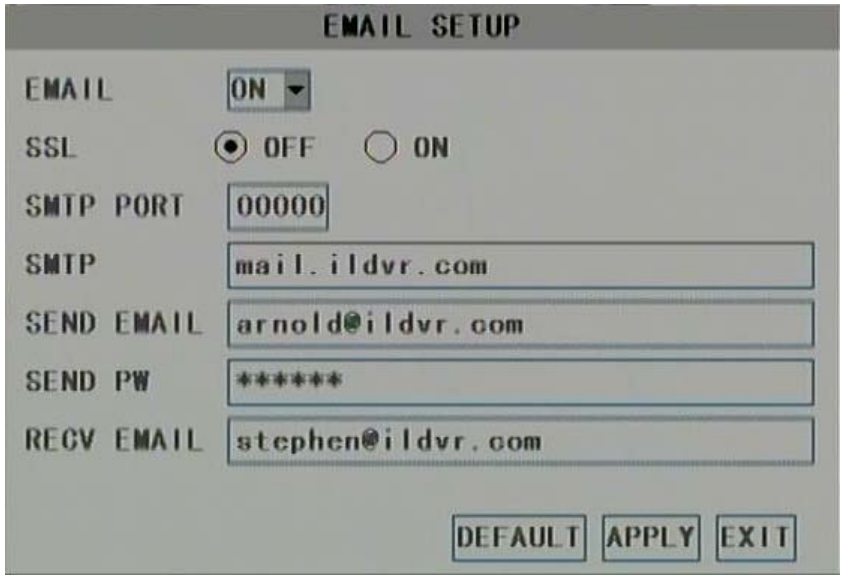
Sensor Input alarm (I/O): Please choose correct I/O type NC (normal close) or NO (normal open)

HDD lost: A sign of **"**H" shows up on screen.

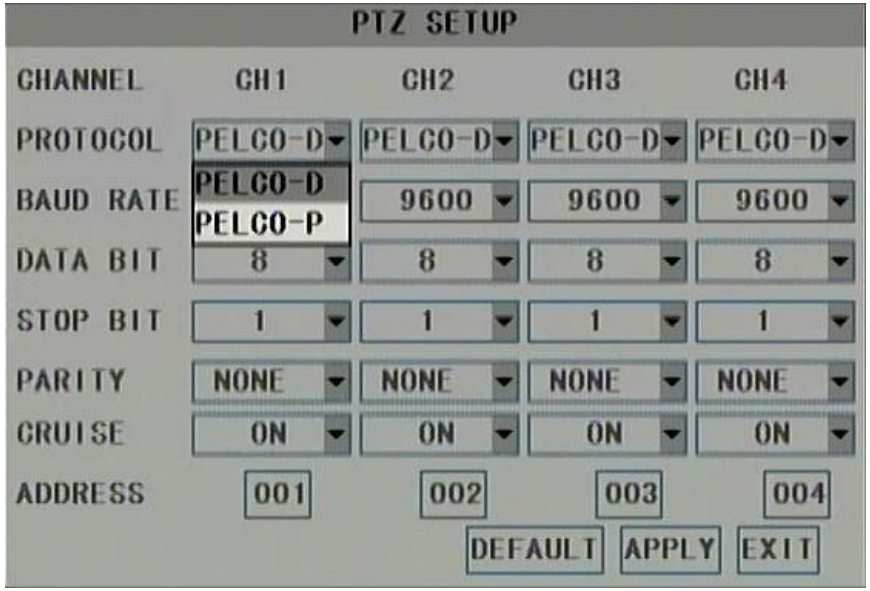
HDD full: DVR sounds alarm beep.

Video Lost: DVR sounds alarm beep.

If you install a buzzer to alarm port of rear panel, you can use it for alarm output. Otherwise please use alarm email notification or full screen mode notification.



Please input your email parameters correctly if you use the feature of alarm email notification

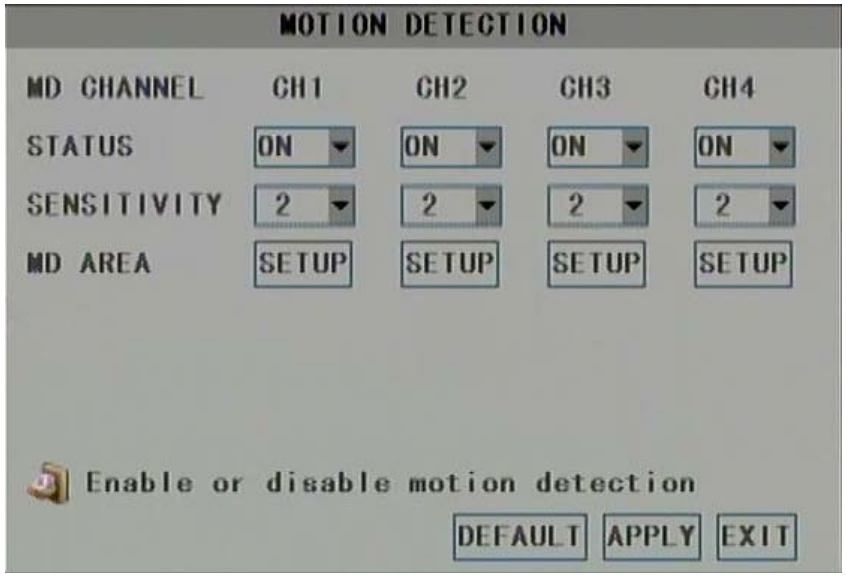


If you connect PTZ camera to DVR, please configure PTZ protocol, Baud Rate and PTZ address (ID) correctly in this page.

Please configure the mobile phone login ID, password and communication port in this page. If your DVR connect to public internet router, don't forget to map the port number for your DVR in the router.

DVR supports Windows Mobile, Sybian OS, iPhone, Blackberry.

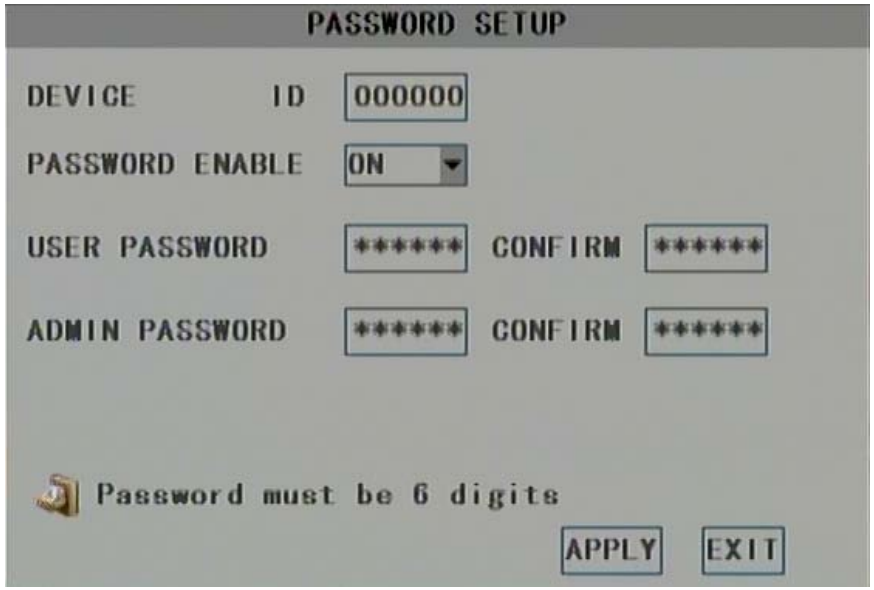
To enable motion detect function, you should configure every camera settings in this page. Click SETUP button to bring up camera image. Click the grid area to set motion detect zone.



4.6 System

In main menu interface click **SYSTEM** icon to enter SYSTEM SETUP interface (below illustration)

Date/Time: Change system time and set time format
Password: Click to bring up PASSWORD SETUP interface
Video: Set system video standard and VGA resolution
Language: Set GUI language
Info: View firmware version and hardware info
Maintain: Restore factory default settings. Upgrade system and Set system reboot time.

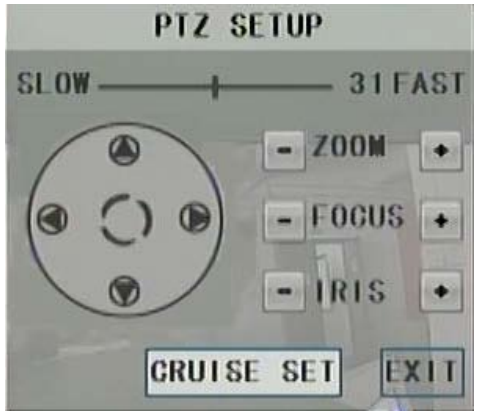


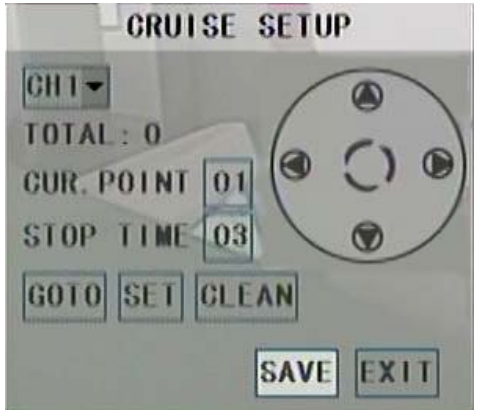
Set password enable or disable. Change user password.

For your attention, system only supports 2 users ID, one is "Admin" and the other one is normal "User". Here the password is local user's password. It may be different from network user password.

5. PTZ Control

In main interface, right click camera image on screen, from right-click menu select PTZ to bring up the PTZ SETUP interface.
Click arrow button to move camera, click the ZOOM/FOCUS/IRIS to adjust lens. Click the central circle button to run auto-pan.





Set preset point steps:

1. Click CRUISE SET button to bring up CRUISE SETUP interface.
2. In Cruise Setup panel choose PTZ camera channel number
3. Choose CUR. POINT number (current preset)
4. Move camera to aim position by click arrow button. If you want to adjust lens, please return to PTZ Setup panel to set zoom/focus/iris then enter this interface again.
5. Click SET button to save preset position. Repeat step 1 to 3 to set other preset points. Click Save button to save the settings. Max presets number is 128.

Call preset: Choose CUR.POINT number then click GOTO button.

Cruise Setup Steps:

1. Choose PTZ camera channel number
2. Choose CUR. POINT number (current preset) as start point of cruise
3. Set STOP TIME for each preset point (stop point) then save it

Run Cruise: Select START CRUISE to run PTZ touring from right-click menu.

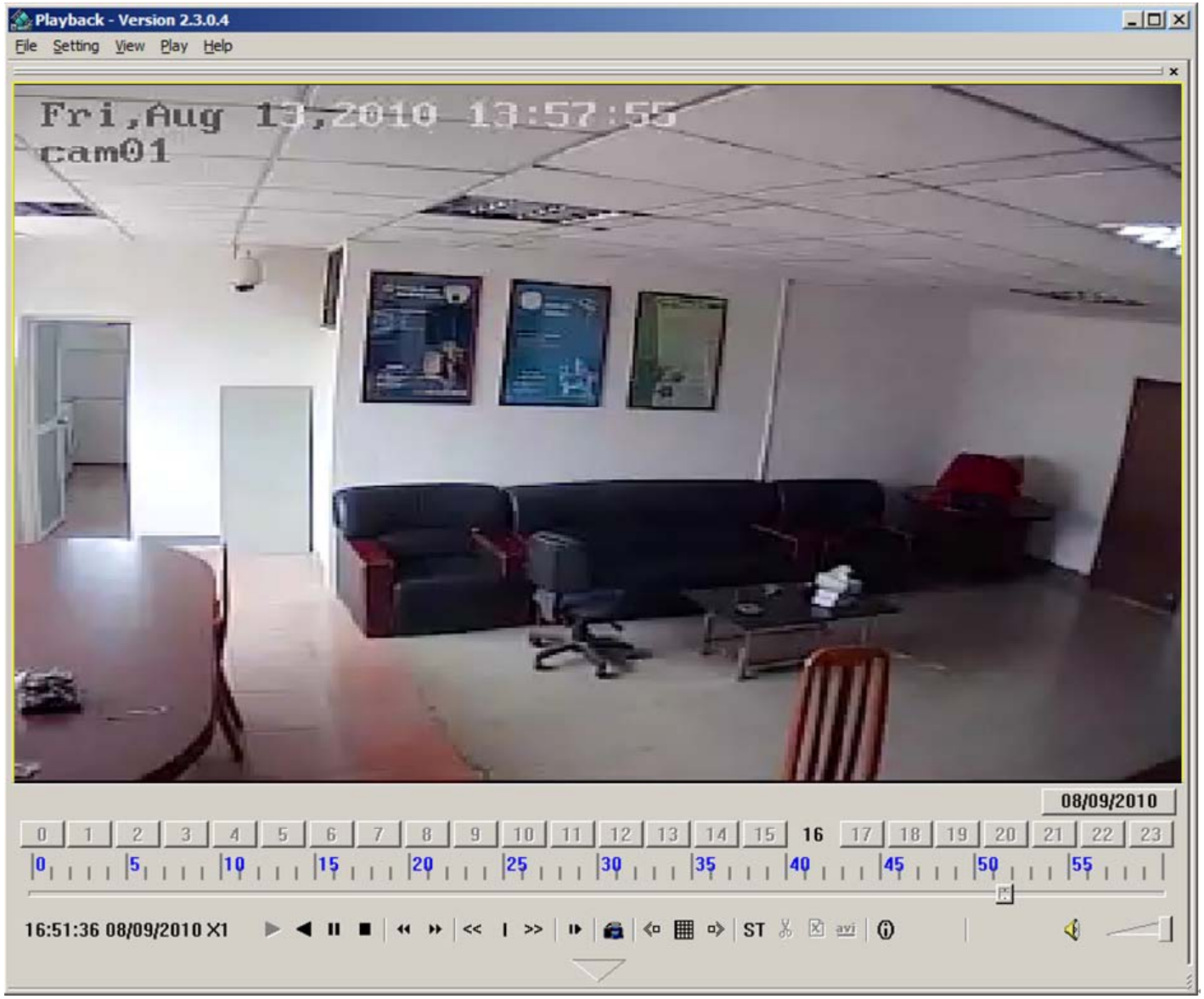
Clean: Clear the cruise setting

6. Backup Player

Before playing the backup video, please install the player program from software CD. Double click the PlaybackSetup.exe to initial installation. After finish installation, there is a shortcut Playback Software icon on desktop. You can run it to view backup video on your PC.

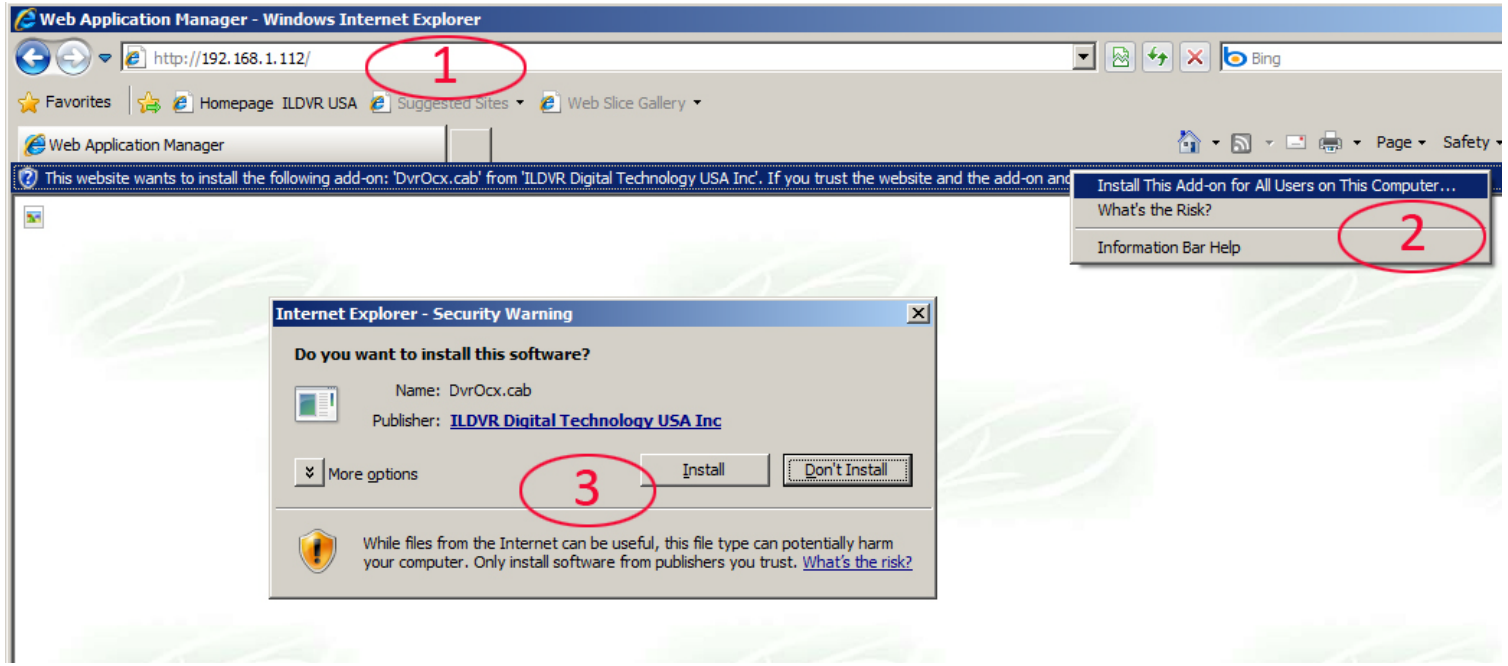
If you install the program AVIGenerator.exe in your PC, you can run it to convert the backup H.264 video to AVI format. Most of popular video player support AVI

video such as Windows Media Player.



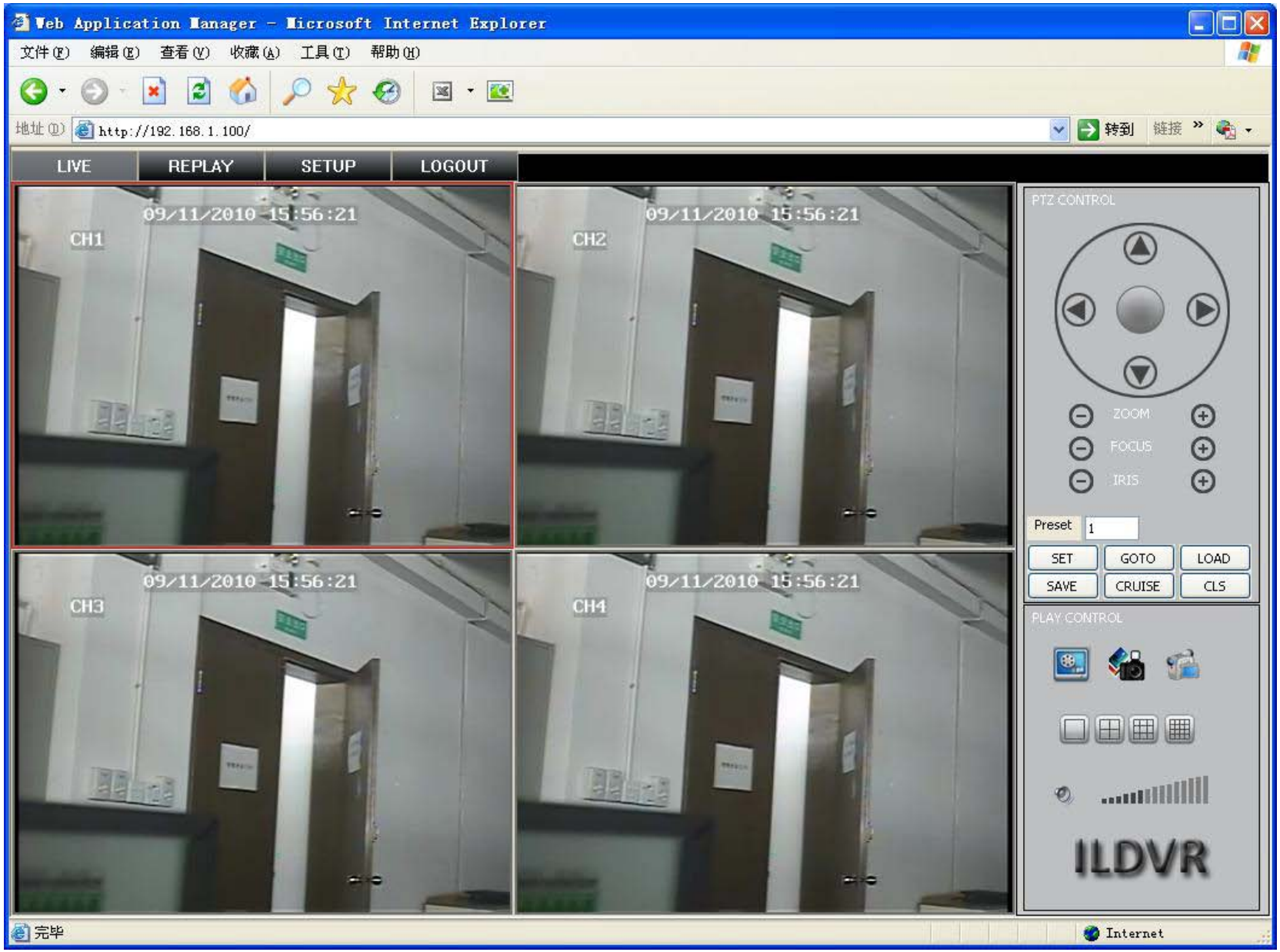
7. IE Web Client

At first time to use IE remote access DVR, you should install the Add-on (ActiveX Control). Please refer to following illustration to finish the installation. After that, the User Login dialog interface show up. If the DVR was configured password enable, please input correct password to login.


Web Application Manager - Windows Internet Explorer
http://192.168.1.112/
1
Favorites
Homepage ILDVR USA
Suggested Sites
Web Slice Gallery
Web Application Manager
Page
Safety
This website wants to install the following add-on: 'DvrOcx.cab' from 'ILDVR Digital Technology USA Inc'. If you trust the website and the add-on and
Install This Add-on for All Users on This Computer...
What's the Risk?
Information Bar Help
2
Internet Explorer - Security Warning
Do you want to install this software?
Name: DvrOcx.cab
Publisher: ILDVR Digital Technology USA Inc
More options
3
Install
Don't Install
While files from the Internet can be useful, this file type can potentially harm your computer. Only install software from publishers you trust. What's the risk?

System auto match the password to user ID. You don't need input login ID. To get the privilege of remote system configuration, you must login as Admin password.

For your attention, select network type as INTRANET means high quality main stream video, select network type as INTERNET means low quality sub-stream video. Please choose correct type according your network bandwidth.



Main interface operation

Connection on/off button, connect or disconnect all camera

Grab picture button, click one camera to activate it (highlight) then click this button. The grabbed picture will be auto saved in default path C:\DVR\DVRName\Capture\CameraName\ImageName.bmp. Herein as below, the DVRName may be replaced by DVR IP address or domain name.

Manual record button, click it to begin record live video in local PC. The record saving default path is C:\DVR\DVRName\Record\Date\CameraName\FileName

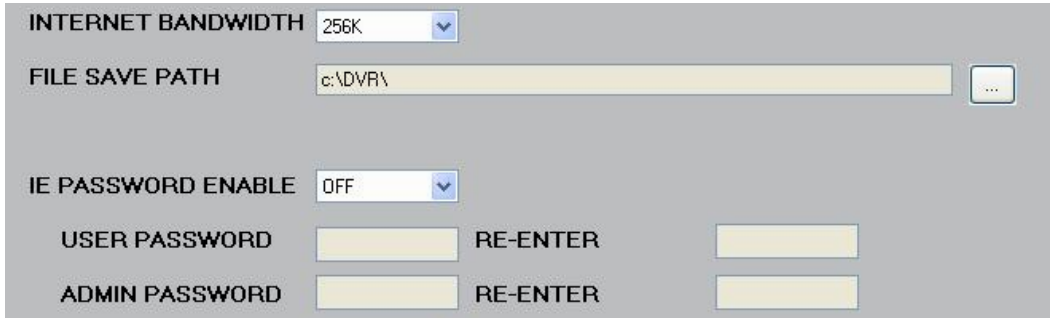
Split viewing mode button

Adjust audio volume

The PTZ operation is similar to DVR local PTZ Control except LOAD button (load one preset), please refer to section 5.

Remote Configuration

Click Setup button to enter remote configuration interface. All pages are exactly same meanings as DVR local menu except the Setting page. Please refer to Section 4 for operation.

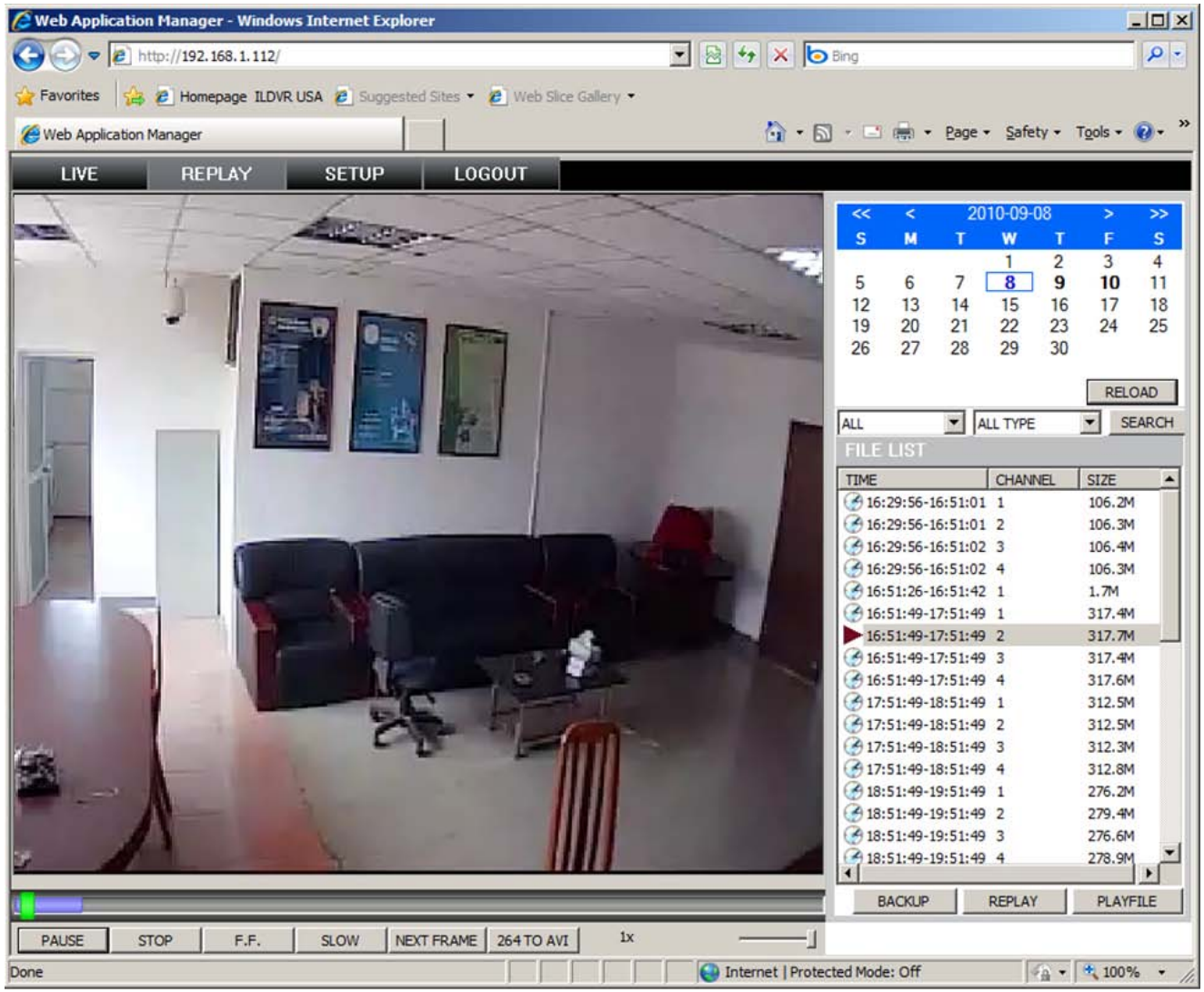


Please set a files saving path in your local PC for IE web client.

Please set remote user password for IE web client.

Remote Playback

Click REPLAY button to enter following playback interface. In the calendar panel, double click a date to search record video file. Double click a file in the file list to play the video.



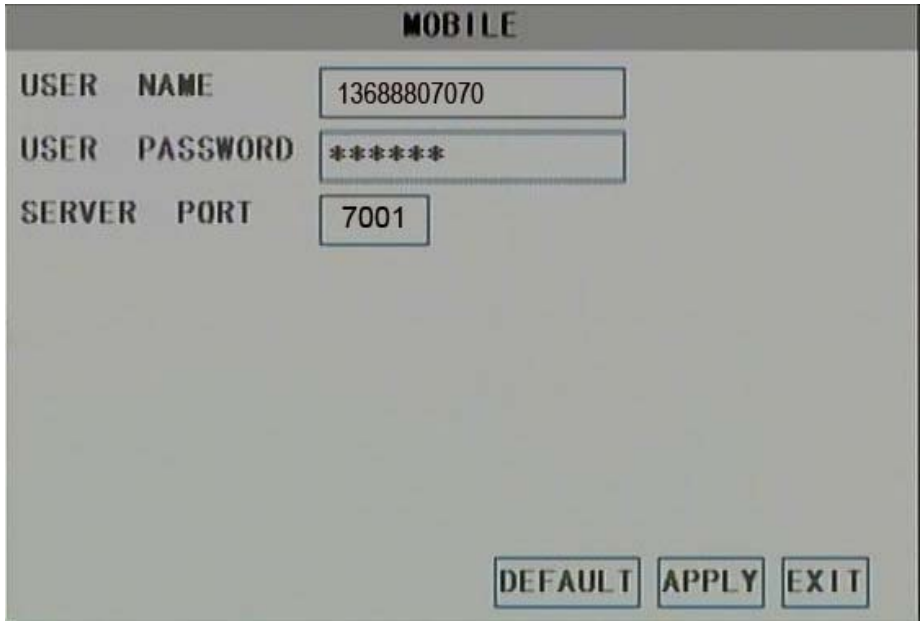
BACKUP: Click this button to download a selected file. Default backup saving path is C:\DVR\DVR Name\Backup\

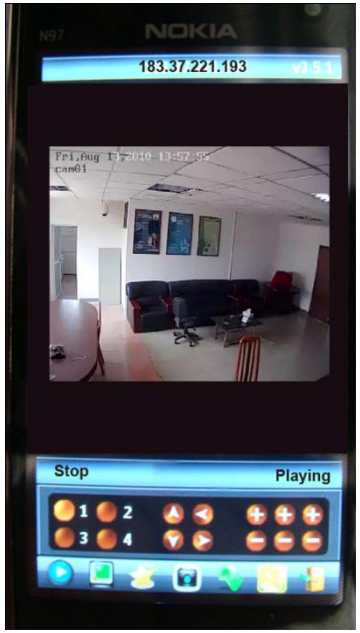
PLAYFILE: Click this button to play the web client recording video. The file is saved in local PC. Please locate the original file path at C:\DVR\DVRName\Record\Date\CameraName\FileName

264 TO AVI: Click this button to convert the selected H.264 compression video to AVI format video.

8. Mobile Phone Viewer

Before using mobile phone webcam viewer, please install the Mobile ActiveX in your mobile phone. You can find the installer in the software CD. If you don't have the CD, please download the software from ILDVR official web site. Please check your mobile phone operation system, choose proper client software then copy it to your mobile phone. Open it to initialize installation. After finish installation, please find the short cut icon to run the program. Following illustration shows Nokia S60 mobile phone connection and preview interface.





ILDVR Global Distributors

Hungary: www.ildvr.hu

Technical Support Information

Please fill in this form in order to get prompt technical service in case of emergency!

Item	Description
NetDVR Model Name	
NetDVR serial number	
Firmware Version	
Purchasing date	
Dealer’s Contact info	**Company name:** **Technical Engineer:** **Tel:** **Fax:** **Email:**